

## Safety Data Sheet

**SDS ID: Stock Code CU**

**Revision date:** July 20, 2015

### Section 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product name:** Talon Copper Anti-Seize Lubricant and Thread Sealant

**Synonyms:** None

**Chemical family:** N/A

**Producer:** J.C. Whitlam Manufacturing Company

200 West Walnut Street

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**Telephone:** 330-334-2524 Available during normal business hours

**Emergency:** 330-334-2524 Available during normal business hours

### Section 2. HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

#### GHS Classification (Hazcom 2012):

Skin Sensitizer Category 1

Carcinogen Category 2

Specific Target Organ Toxicity – Single Exposure Category 1 (Inhalation)

#### Label Elements:

Danger



#### Hazard Phrases:

H317 May cause an allergic skin reaction

H370 Causes damage to respiratory tract through inhalation

H351 Suspected of causing cancer through inhalation

#### Precautionary Phrases:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P260 Do not breathe mist or vapor.

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves.

P302+P352 IF ON SKIN: Wash with plenty of water.

P333+P313 If skin irritation or rash occurs: Get medical attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

P308+P311 IF exposed or concerned: Call a POISON CENTER or doctor.

P405 Store locked up.

P308+P313 IF exposed or concerned: Get medical attention.

P501 Dispose of contents in accordance with local, regional and national regulations.

### Section 3. COMPOSITION / INFORMATION ON INGREDIENTS

#### Material information:

Name	CAS No.	Weight %
Lubricating greases	74869-21-9	50-70
Copper	7440-50-8	7-13
Lime	1305-78-8	1-5

*\*Note: The above weight percentages are represented in ranges as estimates. Due to variation among production batches, component percentages may vary.*

### Section 4. FIRST AID MEASURES

**Inhalation:** Remove from exposure. Get medical attention if experiencing cough, irritation or difficult breathing.

**Skin contact:** Wash thoroughly with soap and water. If irritation occurs, get medical attention.

**Ingestion:** Get immediate medical attention. DO NOT INDUCE VOMITING! Possible aspiration hazard.

**Eye contact:** Flush with copious amounts of water. Get immediate medical attention.

**Notes to Physician:** The hydrocarbons contained in this product are mild irritants of the eyes and mucous membranes, central nervous system depressants, and primary chemical irritants of the skin. Prolonged or repeated skin contact, especially with poor personal hygiene, may cause skin disorders.

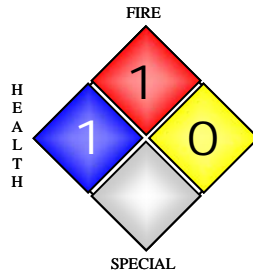
### Section 5. FIREFIGHTING MEASURES

**Suitable extinguishing media:** Dry chemical, water fog, foam or carbon dioxide may be suitable for extinguishing fires involving this product.

**Specific hazards:** Combustion products are highly dependent on the combustion conditions. CO, CO<sub>2</sub>, CaO, oxygenates and unidentified organic compounds may be formed during combustion. High temperatures may produce metal fume, vapor, and/or dust. Combustion products may cause effects of overexposure as noted in Section 2 Hazards Identification. They may also cause headache; dizziness; coma; convulsion; weakness; drowsiness; tachypnea; nausea; paresthesia; dyspnea; asphyxiation; mild to severe eye, skin or respiratory tract irritation; metal fume fever; metallic taste in mouth; cough; pneumonia; pneumoconiosis; ulceration or perforation of the nasal septum and/or lung damage. Product fume and/or vapor may be irritating or toxic if inhaled. The product or its dust, can react vigorously with strong oxidizing agents.

**Special protective equipment and precautions for firefighters:** Use full-body protection and full-face, self-contained breathing apparatus operated in a positive pressure mode. Use water spray (fog) to cool containers and disperse vapors.

NFPA rating: HMIS rating:		
Health:	1	1
Flammability:	1	1
Instability/reactivity:	0	0
Other:	N/A	B (PPE)



Slightly Hazardous
FP - above 200° F
Stable
N/A

## Section 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions:</b>	Avoid contact with the skin and the eyes.
<b>Large Spill:</b>	Keep petroleum products out of streams and waterways. Assure conformity with applicable government regulations.
<b>Methods for Containment and Clean up</b>	Clean area with an appropriate cleanser.

## Section 7. HANDLING AND STORAGE

<b>Handling:</b>	The two major means of metal absorption are inhalation and ingestion. After use, always wash hands before smoking, eating, or drinking. Smoking, eating, and drinking should be confined to uncontaminated areas. Work clothes and equipment should remain in designated areas. Before reuse, launder contaminated clothing separate from personal clothing. Avoid skin contact and use personal protection when handling product, waste product, or contaminated equipment. Wash with soap and water after use. Prolonged and repeated contact can cause defatting action of the skin and may cause disorders such as dermatitis, folliculitis, and oil acne. This product is intended for industrial use only. Isolate from children and their environment. This product may separate. Stir well before use. The flash point of this product depends on the degree of separation.
<b>Storage:</b>	Store in a cool, dry area where accidental contact with acids is not possible. Do not store or handle near high temperature or open flame. Keep storage containers closed when not in use.

## Section 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Occupational Exposure Limits:

Name	CAS No.	ACGIH® TLV® Exposure Limits:	Federal OSHA PELs	OSHA PELs 1989
Copper	7440-50-8	TWA: 0.2 mg/m <sup>3</sup> TWA: 1 mg/m <sup>3</sup>	N/A	0.1
Lime	1305-78-8	TWA: 2 mg/m <sup>3</sup>	N/A	5

All exposure limits listed are 8-hour time weighted average (TWA) — except where noted otherwise.

Time Weighted Average (TWA) is an average exposure over the course of an 8-hour work shift.

A Short Term Exposure Limit TWA over the course of 15 minutes.

PEL — Permissible Exposure Limit is the maximum 8-hour TWA concentration of a chemical that a worker may be exposed to under Occupational Safety and Health Administration (OSHA) regulations.

Federal OSHA 1989 PELs were vacated but are in use and enforced by many state OSHA plans.

**Engineering measures:** No special ventilation requirements under conditions of normal use.

## PERSONAL PROTECTIVE EQUIPMENT

**Respiratory protection:** No respiratory equipment is required for normal use.

**Skin and body protection:** Clothing appropriate for an industrial environment should be worn.

**Eye protection:** Vented goggles or safety glasses with side shields.

**Hygiene measures:** When using, do not eat, drink or smoke. Avoid contact with skin, eyes and clothing. Wash hands immediately after handling the product.

## Section 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Copper-black
<b>Physical state (solid/liquid/gas):</b>	Solid
<b>Substance type (pure/mixture):</b>	Mixture
<b>Color:</b>	Copper-black
<b>Odor:</b>	Petroleum odor
<b>Molecular weight:</b>	Not available
<b>pH:</b>	Not applicable
<b>Boiling point/range (5-95%):</b>	228°C / 550°F
<b>Melting point/range:</b>	Not available
<b>Decomposition temperature:</b>	Not available
<b>Specific gravity:</b>	1.2
<b>Vapor density:</b>	(AIR = 1) >1
<b>Vapor pressure:</b>	Not available
<b>Evaporation rate (Butyl acetate= 1):</b>	<1
<b>Flash point, method used:</b>	196°C / 385°F, ASTM D 92, C.O.C.
<b>Water solubility:</b>	Negligible
<b>VOC Content:</b>	Not available
<b>Auto-ignition temperature:</b>	Not available
<b>Flammable limits in air — lower (%):</b>	Not available
<b>Flammable limits in air — upper (%):</b>	Not available

## Section 10. STABILITY AND REACTIVITY

<b>Reactivity:</b>	No data available
<b>Stability:</b>	Not applicable
<b>Possibly hazardous reactions:</b>	Not applicable
<b>Conditions to avoid:</b>	Not applicable
<b>Incompatible Materials:</b>	Strong oxidizers or acids.
<b>Hazardous decomposition products:</b>	Under normal temperatures this product will not decompose
<b>Polymerization:</b>	Will not occur.

## Section 11. TOXICOLOGICAL INFORMATION

**Acute toxicity:** Product may cause irritation to the eyes and/or skin. Ingestion of the product may cause gastrointestinal irritation and upset.

### Product information:

Name	CAS No.	Inhalation:	Dermal:	Oral: LD <sub>50</sub>
Lubricating greases	74869-21-9			2280 mg/kg (Rat)
Lime	1305-78-8			500 mg/kg (Rat)

LD<sub>50</sub> — The concentration of the chemical in air that kills 50% of the test animals in a given time (usually four hours).

**Chronic toxicity:** Passes IP 346 Method <3% DMSO – extractable components.

## Section 12. ECOLOGICAL INFORMATION

Component	Freshwater Algae	Freshwater Fish	Water Flea
Lubricating greases		LC50> 2000 mg/L Salmo gairdneri 96h	
Copper	EC50 = 120 mg/L 72 h	LC50 .0068 -0.0156 mg/L Pimephales promelas 96 h LC50< 0.3 mg/L Pimephales promelas 96 h LC50= 0.052 mg/L Oncorhynchus mykiss 96 h LC50= 0.112 mg/L Poecilia reticulata 96 h LC50= 0.2 mg/L Pimephales promelas 96 h LC50= 0.3 mg/L Cyprinus carpio 96 h LC50= 0.8 mg/L Cyprinus carpio 96 h LC50= 1.25 mg/Lepomis macrochirus 96 h	EC50 = 0.03 mg/L 48 h
Lime		LC50= 1070 mg/L Cyprinus carpio 96 h	

## Section 13. DISPOSAL CONSIDERATIONS

### Cleanup considerations:

Discard in accordance with local, state, and federal regulations. Empty containers are exempt from RCRA Subtitle C if they contain no more than 2.5 cm of their original contents in the bottom of the container or less than 3% of the original net weight (less than 0.3% by weight for containers over 110 gallons), or if the residue is analyzed and demonstrated to be nonhazardous.

"Empty" containers retain residue and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY AND/OR DEATH. "Empty" containers should be completely drained and properly sealed. Recycle or discard plastic liner, pail or drum in accordance with local, state, and federal regulations. "Empty" drums may be sent to a drum reconditioner.

## Section 14. TRANSPORT INFORMATION

<b><u>DOT</u></b>	Not regulated by Ground unless it is being shipped by vessel, then it may be classified on documentation as UN3077 Environmentally Hazardous Substance, Solid, n.o.s. (Copper Metal Powder), Class 9, PGIII, Marine Pollutant. (Prepared in compliance with IMDG).
<b><u>TDG</u></b>	Not regulated by Ground unless it is being shipped by vessel, then it may be classified on documentation as UN3077 Environmentally Hazardous Substance, Solid, n.o.s. (Copper Metal Powder), Class 9, PGIII, Marine Pollutant.
<b><u>IATA</u></b>	UN3077 Environmentally Hazardous Substance, Solid, n.o.s. (Copper Metal Powder), Class 9, PGIII.
<b><u>IMDG/IMO</u></b>	UN3077, Environmentally Hazardous Substance, Solid, n.o.s. (Copper Metal Powder), Class 9, PGIII, Marine Pollutant.

## Section 15. REGULATORY INFORMATION

Component	TSCA	DSL	NDSL	EINECS/ELINCS	ENCS	CHINA	KECL	PICCS	AICS
Lubricating greases				278-011-7		X		X	
Copper	Present	X		231-159-6		X		X	X
Lime	Present	X		215-138-9	X	X		X	X

### **U.S Federal Regulations**

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

#### **SARA 311/312 Hazardous Categorization**

Chronic Health Hazard	Yes
Acute Health Hazard	Yes
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

### **CERCLA**

Copper Hazardous Substances RQs = 5000

### **U.S State Regulations**

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

### **State Right-to-Know**

#### **Other International Regulations**

Mexico - Grade No information available

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

#### **WHMIS Hazard Class**

Non-controlled

## **Section 16. OTHER INFORMATION**

The information and recommendations contained herein are based upon tests, data, and information resources believed to be reliable. However, the J.C. Whitlam Manufacturing Company, Inc., and its related operations or divisions (Whitlam) do not guarantee the accuracy or completeness, nor shall any of this information constitute a warranty, whether expressed or implied, as to the safety of goods, the merchantability of the goods or the fitness of the goods for a particular purpose. Adjustment to conform to actual conditions of usage may be required. Whitlam assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of this data. No warranty against infringement of any patent, copyright or trademark is made or implied.